COVERAGE NAME : CON500

COVERAGE AREA: County

COVERAGE DESCRIPTION:

The CON500 contour coverages are derived from DMA (Defense Mapping Agency) 1-degree Digital Elevation Models (DEMs). They are also called Digital Terrain Elevation Data Level 1 (DTED-1). Conversion was made from DEMs in USGS format to ARC/INFO lattices. To obtain smooth contours the lattices were filtered with the 'low' option. Subsequent contours were generated using the GRID package.

Contour polygons are classified on the basis of categories of elevation range read from a lookup table. In this CON500 layer, the contour interval (range) is 154.4 meters or 500 feet. The unit of coverage was a 1-degree by 1-degree block corresponding to 1/2 of a 1:250000 USGS quad grid. The CON500 county coverages were derived from the 1-degree by 1-degree block area through an append and intersect algorithm. Degree gridlines were manually removed.

VITAL STATISTICS:

Datum:	NAD 83
Projection:	Albers
Units:	Meters
1st Std. Parallel:	34 00 00 (34.0 degrees N)
2nd Std. Parallel:	40 30 00 (40.5 degrees N)
Longitude of Origin:	-120 00 00 (120.0 degrees W)
Latitude of Origin:	00 00 00 (0.0 degrees)
False Easting (x shift):	0
False Northing (Y shift):	-4000000
Source:	Defense Mapping Agency One degree digital elevation models
Source Media:	1/2" magnetic tape w/6250 & 1600 BPI
Data Scale:	1:250,000
Data Resolution:	3 arc-seconds, approx. 90 meters
Source Ground Unit:	Degree Seconds
Source Z Unit:	Meters
Capture Method:	Digitized
Source Accuracy:	Absolute horizontal accuracy (feature to datum) of 130 meters, circular error at 90% probability; and an absolute vertical accuracy (feature to mean sea level) of +/- 30 meters (see DEM Data Users Guide, USGS)
Conversion Software:	ARC/INFO Rev 6.0.1
Data Structure:	Vector
ARC/INFO Coverage Type:	Polygon
ARC/INFO Precision:	Double (typically 13-14 significant digits)
ARC/INFO Tolerances:	Not applicable

Number of Features:	34,563
Layer Size:	101.825 MB
Processing platform:	Sun Sparc 1+ workstation
Data Completed:	August 1992

DATA DICTIONARY:

File Name: CON500.PAT
Recode Length: 28

NOTE: Items common to all polygon coverages: AREA, PERIMETER, <coverage>#, and <coverage>-ID are not described here.

COLUMN	ITEM NAME	WIDTH	OUTPUT	TYPE	N.DEC
25	RANGE-CODE	4	5	B	-

RANGE-CODE: Data Ranges

1	0 < range <= 152.4 meters (500 feet)
2	152.4 < range <= 304.8 meters (1000 feet)
3	304.8 < range <= 457.2 meters (1500 feet)
4	457.2 < range <= 609.6 meters (2000 feet)
5	609.6 < range <= 762.0 meters (2500 feet)
6	762.0 < range <= 914.4 meters (3000 feet)
7	914.4 < range <= 1066.8 meters (3500 feet)
8	1066.8 < range <= 1219.2 meters (4000 feet)
9	1219.2 < range <= 1371.6 meters (4500 feet)
10	1371.6 < range <= 1524.0 meters (5000 feet)
11	1524.0 < range <= 1676.4 meters (5500 feet)
12	1676.4 < range <= 1878.8 meters (6000 feet)
13	1878.8 < range <= 1981.2 meters (6500 feet)
14	1981.2 < range <= 2133.6 meters (7000 feet)
15	2133.6 < range <= 2286.0 meters (7500 feet)
16	2286.0 < range <= 2438.4 meters (8000 feet)
17	2438.4 < range <= 2590.8 meters (8500 feet)
18	2590.8 < range <= 2743.2 meters (9000 feet)
19	2743.2 < range <= 2895.6 meters (9500 feet)
20	2895.6 < range <= 3048.0 meters (10000 feet)
21	3048.0 < range <= 3200.4 meters (10500 feet)
22	3200.4 < range <= 3352.8 meters (11000 feet)
23	3352.8 < range <= 3505.2 meters (11500 feet)
24	3505.2 < range <= 3657.6 meters (12000 feet)
25	3657.6 < range <= 3810.0 meters (12500 feet)
26	3810.0 < range <= 3962.4 meters (13000 feet)
27	3962.4 < range <= 4114.8 meters (13500 feet)
28	4114.8 < range <= 4267.2 meters (14000 feet)
29	4267.2 < range <= 4419.6 meters (14500 feet)

30 4419.6 < range <= 4572.0 meters (15000 feet)

DATA QUALITY ASSESSMENT:

The following are subjective comments regarding this data.

Contours are computer-generated using grid-based algorithm. Feature accuracy is fair. It is adequate for use as reference information in GIS applications at map scales not larger than 1:250,000.